17CS52

Fifth Semester B.E. Degree Examination, Aug./Sept.2020 Computer Networks

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

	14	occ. Answer any 114 L jun questions, choosing of the jun question from each mod	anic.
		Adula 1	
		Module-1	
1	a.	Compare client-server and peer-to-peer architecture.	(06 Marks)
	b.	What are the different types of transport services provided by the internet?	(08 Marks)
	c.	With a general format, explain the HTTP Request and HTTP Response messages.	(06 Marks)
			,
		OR	
2	a.	Explain FTP commands and replies.	(08 Marks)
	b.	What are the services provided by DNS?	(04 Marks)
	c.	Write a short note on:	
		i) Web caching	
		ii) SMTP.	(08 Marks)
		Module-2	
2	_		(OC Manda)
3	a.	Explain UDP segment structure. With the half of ESM describe the gender side and receiver side of relt 2.0	(06 Marks)
	b.	With the help of FSM, describe the sender side and receiver side of rdt 2.0.	(08 Marks)
	c.	Explain Selective Repeat Protocol.	(06 Marks)
4		With a neat diagram, explain TCP segment structure and its fields.	(00 Moules)
4	a. L	Explain the way handshake and closing a TCP connection.	(08 Marks) (08 Marks)
	b. с.	Define the following:	(vo Marks)
	C.	i) Multiplexing	
		ii) Demultiplexing	
		iii) TCP	
		iv) UDP.	(04 Marks)
		N) CDI.	(011/141115)
	piles	Module-3	
	100		
5	a.	List and explain three switching techniques with a neat diagram.	(10 Marks)
	b.	With the help of FSM, describe the sender side and receiver side of rdt 2.0.	(10 Marks)

OR

- 6 a. Write the algorithm for the following:
 - i) Link-state
 - ii) Distance vector.

(08 Marks)

- b. Write a short note on:
 - i) Broadcast routing
 - ii) Multicast routing.

(12 Marks)

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

Module-4 (08 Marks) Explain 3G system architecture. Explain the two different routing approaches to mobile node. (12 Marks) OR Define handoff. List the steps involved when a base station does decide to handoff a mobile 8 (10 Marks) Write a short note on: b. i) Agent discovery in mobile IP (10 Marks) ii) Registration with the home agent in mobile IP. Module-5 List and explain the types of multimedia networking application. (10 Marks) Briefly explain the following: i) RTP (10 Marks) ii) SIP.

OR

Write a short note on:

a. FIFO scheduling mechanism

b. Priority queueing scheduling mechanismc. Round robin and weighted fair queuing scheduling mechanism.

(20 Marks)